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CANADIAN DEFENCE ACADEMY

STRENGTH THROUGH KNOWLEDGE



Canadian ADL Partnership Lab

IITSEC 2009



Presentation by CDA to IITSEC Dec 2009

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The Reality and Drivers of Change in Canada

Existing and emerging Operational Needs:

- Reduced training budgets
- Reduced training resources
- Reduced training timeframes
- Retiring workforce
- Career-mobile future work force

Mobile future work force

- Emerging niche learning requirements and markets
- Emerging technological capabilities



The Canadian Lab Partnership Lab is...

- An applied learning and research lab
- A recognized Center for Excellence in Trg./Ed. Software/Applications
- A provider to a team of Learning Project/Concept Officers
- A provider for Standards and project support
- A partner in joint R&D projects (DND / DRDC/ NRC / RCMP / OGDs)
- A vision that will grow other Labs
 - Modeling and Simulation Co-Lab 2010 (Army / NRC / UNB)
 - Academic Co-Lab (RMC / Queens Univ / St Lawrence College)





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Lab Portfolio – 2009/2010 Projects



National
Defence

Défense
nationale

Canada

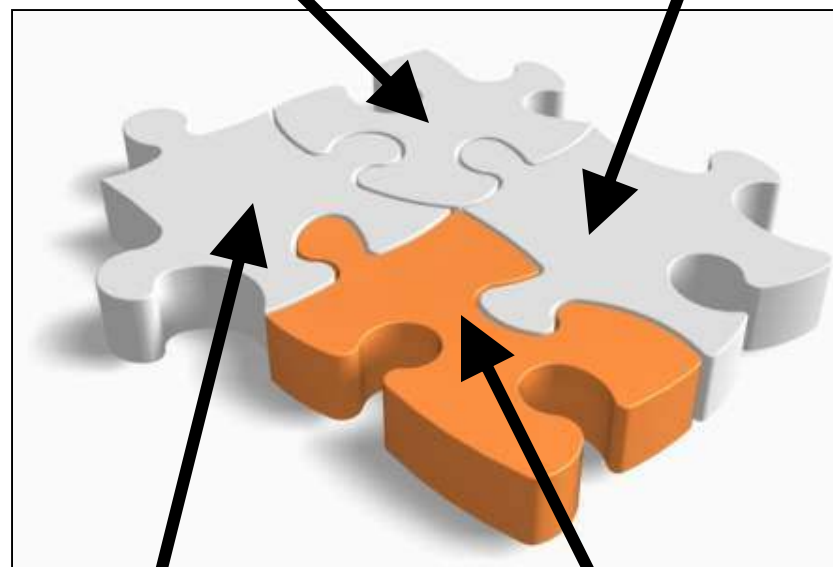


Standards – Canadian “Blackbox” Support

- Canadian Support to SCORM
- Guidance is required
- Many courses are not true “SCORM” compliance
 - Server dependencies
 - “Hacked” SCO
 - Dirty “wrapping”

‘Do’s and ‘Don’t’s - SOP

Contractual Guidance

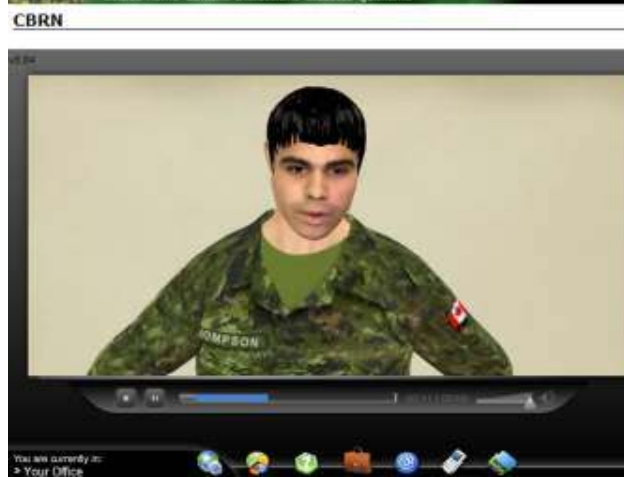
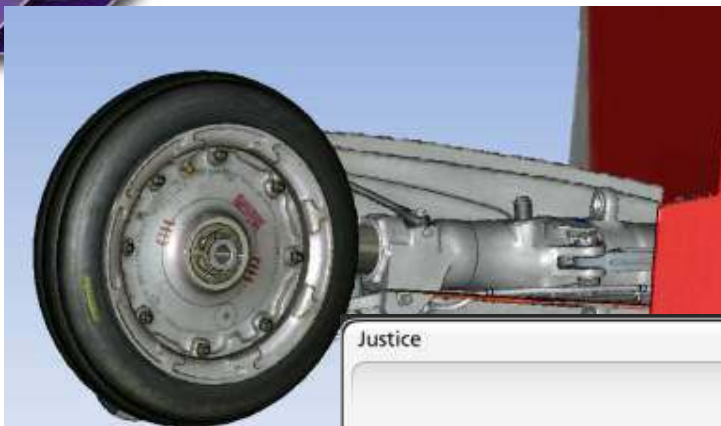


Sample, Examples

SCORM Standards



Award Wining Courseware



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ADL Survey – Nato Training Group



- Managing the release of the ADL Survey 2010
- E- Listening as a delivery platform
- Approx 20 Questions over 30-40 ADL Reps across the globe.
- Results to be presented at spring NTG meeting



eListen

Online Data Collection & Analysis

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Phase 1 – QSMS and TPMS

QSMS

- Allows for Import quals/specs from any csv format
- Digital Scalar tool resident in all apps
- Taxonomy editor based on Blooms and Clarke
- Built in Work flow automation, quality control and translation
- XML Export to Excel, Word, or TPMS

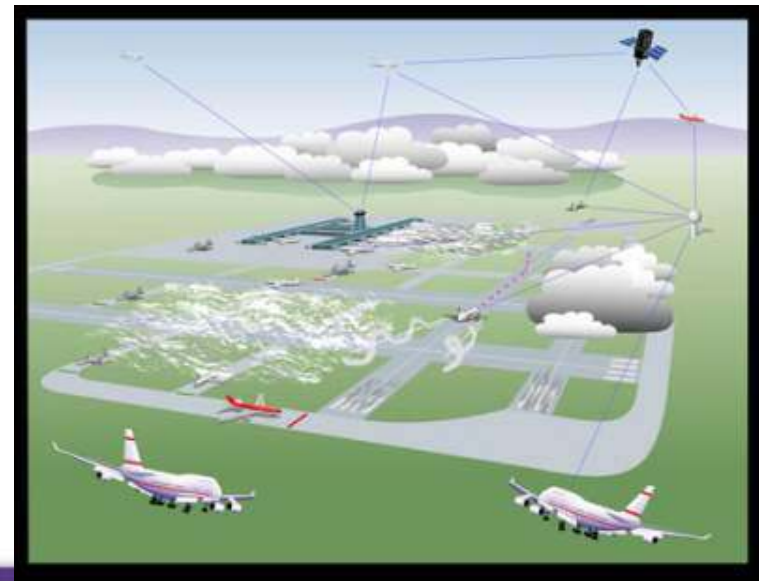
TPMS

- Integrated with TPMS
- Series of Inst. Analysis/Method and ROI tools to assist in development of the Training Plan
- Built in Scheduler
- Will integrate into Storyboarder tool by Spring 2010



Canadian Air Forces – Task #509

- Multiyear project to address ATC training deficiencies.
- Integrate Project Team – CAE
- Looking at
 - A.I. responses within V.W
 - “True” flight paths
 - Push towards automation
 - Eval of R.W and Forterra
- Power of the FCoE





RealWorld – Vancouver Olympics 2010

- RealWorld 3D platform / Expert tools
- Support to Operation Podium – Olympic Village
- Mission Rehearsal / Security Training
- Partnership between
 - Canadian Forces (ADL lab)
 - Royal Cnd. Mounted Police (RCMP)
 - Cnd. Border Security Agency (CBSA)
- Next build will be G20 venue
- <http://www.totimm.com/>





Mobile Apps for Military

Theme #1: Pre / Post Deployment training

- iSCORM – offline App
- Basic Orientation Maps and Compound Layout



iSCORM

Theme #2: Operation Support Tool – none secure

- Image Masher => Terrain model derivation
([view TEDs Video](#))
- AAR Tool direct CoC feedback
- “My Friends / Beacon” like GPS capability – My “squad”



My “squad”



Academic Research Focus

- CF Learner/Instructor profile
- How do we measure learning and skills in immersive technologies
- ROI – DL - virtual worlds – soc collaboration tools

Gaming Focus – Immersive tech

- Intrinsic Motivation – how do we create it?
- Immersion/engagement & emotional context– what relationship is there and how can they be manipulated?
- How do we build games that teach?
- Generational Study on the learning style using games – what is the common/effective model today and what will be the model of tomorrow?

Social Collaboration / Guilds – what is the effect on the training community and mil structure

- Levels of engagement / challenge in games – how to achieve?
- Jobs are not getting easier, budgets and PY's are cut and we are reaching retirement rates at an unprecedented rate – how can soc collaboration tools help?
- KM / info awareness and quality around soc collaboration activities – what tools are required to filter onslaught of collective information?



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Questions?



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